LISTING OF CLAIMS:

Please reconsider the claims as follows:

- 1 1. (currently amended) A method, comprising:
- 2 reducing the power level of an optical signal propagating in an optical fiber path
- 3 in response to the absence of a counter-propagating supervisory signal in the optical fiber
- 4 path; and
- 5 reducing counter-propagating optical power in response to the absence of the
- 6 optical signal.
 - 2. (canceled)
- 3. (currently amended) The method of claim $\underline{1}$ 2, wherein the step of reducing the power
- 2 level of the optical signal and the step of reducing counter-propagating optical power are
- 3 performed substantially at the same time.
- 4. (currently amended) The method of claim $\underline{1}$ 2, wherein the step of reducing the power
- 2 level of the optical signal comprises at least one of:
- reducing pump power supplied by at least one pump source coupled to the optical
- 4 fiber path; and
- 5 reducing gain supplied by at least one optical amplifier coupled to the optical
- 6 fiber path.
- 5. (previously presented) The method of claim 4, wherein the step of reducing the
- 2 counter-propagating optical power comprises reducing counter-propagating pump power
- 3 supplied by at least one pump source coupled to the optical fiber path.
- 6. (previously presented) The method of claim 1, wherein the power level of the optical
- 2 signal is reduced by a predetermined amount such that harm from an optical signal
- 3 emanating from a fault in the optical fiber path is substantially reduced.

- 7. (currently amended) The method of claim 1 2, wherein the counter-propagating
- 2 optical power is reduced by a predetermined amount such that harm from an optical
- 3 signal emanating from a fault in the optical fiber path is substantially reduced.
- 8. (original) The method of claim 1, further comprising the step of restoring the power
- 2 level of the optical signal in response to the presence of the counter-propagating
- 3 supervisory signal.
- 9. (currently amended) The method of claim $\underline{1}$ 2, further comprising the step of restoring
- 2 the counter-propagating optical power in response to a notification of the presence of the
- 3 counter-propagating supervisory signal.
- 1 10. (currently amended) A method, comprising:
- a) detecting loss of a supervisory signal counter-propagating in an optical fiber path at a first network element; and
- b) responsive to the loss of the supervisory signal in the optical fiber path,
- 5 reducing the power level of an optical signal output to the optical fiber path from the first
- 6 network element by a predetermined amount;
- c) detecting loss of the optical signal propagating in the optical fiber path at a second network element; and
- d) responsive to the loss of the optical signal, reducing counter-propagating
 optical power output from the second network element by a predetermined amount.
 - 11. (canceled)
- 1 12. (currently amended) The method of claim 10 11, wherein the steps b) and d) are
- 2 performed substantially at the same time.
 - 13. (original) The method of claim 10, wherein step b) comprises at least one of:

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- reducing pump power supplied by at least one pump source coupled to the optical 2 fiber path in the first network element; and
- reducing gain of at least one optical amplifier coupled to the optical fiber path in 4 the first network element. 5
- 14. (currently amended) The method of claim 10 11, wherein step d) comprises reducing 1
- counter-propagating pump power supplied by at least one pump source coupled to the 2
- optical fiber path in the second network element. 3
- 15. (currently amended) The method of claim 10 11, further comprising: l
- e) responsive to the loss of the optical data signal, reducing counter-propagating 2 optical signal power output from at least one additional network element by a 3 predetermined amount. 4
- 16. (currently amended) A network element adapted for use in an optical transmission 1 system, comprising: 2
- at least one a first gain element, for providing an upstream optical signal to an 3 upstream optical fiber path; and 4
- a controller, for reducing the power level of an the upstream optical signal 5 generated by the at least one first gain element to the upstream optical fiber path in 6 response to the absence of a counter-propagating supervisory signal in the upstream 7 optical fiber path; 8
- a second gain element, for providing a counter-propagating downstream optical 9 signal to an downstream optical fiber path; and 10
- the controller, for reducing the power level of the counter-propagating 11 downstream optical signal generated by the second gain element to the downstream 12 optical fiber path in response to the loss of a optical signal propagating in the 13 downstream optical fiber path. 14

17. (original) The network element of claim 16, wherein the controller, in response to the 1

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- absence of the counter-propagating supervisory signal, provides an indication to a 2
- downstream network element that the supervisory signal is absent.
- 18. (original) The network element of claim 16, wherein the network element comprises 1
- a repeater.
- 19. (original) The network element of claim 18, wherein the at least one gain element 1
- comprises at least one of an optical amplifier and a pump source. 2
- 20. (previously presented) In a lightwave communication system having a plurality of 1
- network elements for supplying an optical signal adapted for transmission in an optical 2
- fiber path, an apparatus for controlling power of an optical signal propagating in the 3
- 4 optical fiber path comprising:
- means for detecting loss of a supervisory signal counter-propagating in the optical 5
- fiber path; and 6
- a first automatic power reduction circuit for reducing the power level of an optical 7
- signal output to the optical fiber path from a first network element by a predetermined 8
- amount in response to the loss of the supervisory signal in the optical fiber path; 9
- means for detecting loss of the optical signal propagating in the optical fiber path; 10
- 11 and
- a second automatic power reduction circuit for reducing counter-propagating 12
- optical power output from a second network element by a predetermined amount in 13
- response to the loss of the optical signal. 14
 - 21. (canceled)